

Please type a plus sign (+) inside this box → ☐

PTO/SB/08B (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/618,896
		Filing Date	July 14, 2003
		First Named Inventor	Paul G. Ahlquist
		Group Art Unit	1632
		Examiner Name	
Sheet 2	of 5	Attorney Docket Number	960296.00096

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
SM		P. Ahlquist, et al., "Bromovirus and Nodavirus RNA Replication," Sixth International Symposium on Positive Strand RNA Viruses," S3-06, May 28-June 2, 2001, Institut Pasteur, Paris, France (abstract).	
		T. Baumstark and P. Ahlquist, "The Brome Mosaic Virus RNA3 Intergenic Replication Enhancer Folds to Mimic a tRNA TYC-stem Loop and is Modified In Vivo," Sixth International Symposium on Positive Strand RNA Viruses," P1-127, May 28-June 2, 2001, Institut Pasteur, Paris, France	
		T. Baumstark and P. Ahlquist, "The Brome Mosaic Virus RNA3 Intergenic Replication Enhancer Folds to Mimic a tRNA TYC-stem Loop and is Modified In Vivo," American Society for Virology, W16-4, 20th Annual Meeting, University of Wisconsin-Madison, Madison, Wisconsin, July 21-25.	
		A.J. Caplan, et al., "Characterization of YDJ1: A Yeast Homologue of the Bacterial dnaJ Protein," J. Cell Biol. 114(4):609-621, 1991 (front page only).	
		A.J. Caplan, et al., "YDJ1p Facilitates Polypeptide Translocation across Different Intracellular Membranes by a Conserved Mechanism," Cell 71:1143-1155, 1992 (front page only).	
		J. Chen, et al., "Brome Mosaic Virus Replication Protein 1a Recruits Viral RNA2 to Replication through a 5'-Proximal RNA2 Replication Signal," American Society for Virology, 19th Annual Meeting, Colorado State University, Fort Collins, Colorado, p. 129, July 8-12, 2000 (abstract).	
		J. A. den Boon, et al., "Identification of Sequences in Brome Mosaic Virus Replicase Protein 1A that Mediate Association with Endoplasmic Reticulum Membranes," Sixth International Symposium on Positive Strand RNA Viruses," P1-128, May 28-June 2, 2001, Institut Pasteur,	
		J.A. den Boon, et al., "Sequences in the N-Terminal Capping Domain of Brome Mosaic Virus Replicase Protein 1A Mediate Association with Endoplasmic Reticulum Membranes," American Society for Virology, W30-8, 20th Annual Meeting, University of Wisconsin-Madison, Madison,	
		J. Diez, et al., "Identification and Characterization of a Host Protein Factor Involved in Template Selection for Viral RNA Replication," American Society for Virology, 19th Annual Meeting, Colorado State University, Fort Collins, Colorado, p. 128, July 8-12, 2000 (abstract).	
		J. Diez, et al., "Identification and Characterization of a Host Protein Factor Involved in Template Selection for Viral RNA Replication," PNAS 97(8):3913-3918, 2000.	
SM		H. Hermann, et al., "snRNP Sm Proteins Share Two Evolutionarily Conserved Sequence Motifs which are Involved in Sm Protein-Protein Interactions," EMBO J. 14(9):2076-2088, 1995 (front page only).	

Examiner Signature	<i>SM Chen</i>	Date Considered	10-2-03
--------------------	----------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

† Unique citation designation number. ‡ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

5439706_1.PDF

Please type a plus sign (+) inside this box → +

PTO/SB/08B (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known	
Application Number			
Filing Date	July 14, 2003		
First Named Inventor	Paul G. Ahlquist		
Group Art Unit			
Examiner Name			
Attorney Docket Number	960296.00096		
Sheet	3	of	5

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
SM		J. Hu, et al., Hepadnavirus Assembly and Reverse Transcription Require a Multi-Component Chaperone Complex which is Incorporated into Nucleocapsids," EMBO J. 16(1):59-68, 1997.	
		M. Ishikawa, et al., "In Vivo DNA Expression of Functional Brome Mosaic Virus RNA Replicons in Saccharomyces cerevisiae," J. Virol. 71(10):7781-7790, 1997.	
		M. Ishikawa, et al., "Yeast Mutations in Multiple Complementation Groups Inhibit Brome Mosaic Virus RNA Replication and Transcription and Perturb Regulated Expression of the Viral Polymerase-Like Gene," Proc. Natl. Acad. Sci. USA 94:7781-7790, 1997.	
		M. Janda and P. Ahlquist, "RNA-Dependent Replication, Transcription, and Persistence of Brome Mosaic Virus RNA Replicons in S. cerevisiae," Cell 72:961-970, 1993.	
		M. Janda and P. Ahlquist, "Brome Mosaic Virus RNA Replication Protein 1a Dramatically Increases In Vivo Stability but not Translation of Viral Genomic RNA3," Proc. Natl. Acad. Sci. USA 95:2227-2232, 1998.	
		Y. Kimura, et al., "Role of the Protein Chaperone YDJ1 in Establishing Hsp90-Mediated Signal Transduction Pathways," Science 268:1362 (front page only). 1995	
		D.B. Kushner and P. Ahlquist, "Turnover, Host-mediated Repair and Replication of 3' tRNA-like Ends of Brome Mosaic Virus RNA In Vivo," Sixth International Symposium on Positive Strand RNA Viruses, P1-127, May 28-June 2, 2001, Institut Pasteur, Paris, France (abstract).	
		D.B. Kushner and P. Ahlquist, "Turnover, Host-mediated Repair and Replication of 3' tRNA-like Ends of Brome Mosaic Virus RNA In Vivo," American Society for Virology, W16-10, 20th Annual Meeting, University of Wisconsin-Madison, Madison, Wisconsin, July 21-25, 2001 (abstract).	
		D.H. Lee, et al., "Involvement of the Molecular Chaperone Ydj1 in the Ubiquitin-Dependent Degradation of Short-Lived and Abnormal Proteins in Saccharomyces cerevisiae," Mole. Cell. Biol. 16(9):4773-4781, 1996 (front page only).	
		W.-M. Lee, et al., "Altered Membrane Lipid Composition Inhibits Formation of Functional Brome Mosaic Virus RNA Replication Complexes," American Society for Virology, 19th Annual Meeting, Colorado State University, Fort Collins, Colorado, p. 129, July 8-12, 2000 (abstract).	
Lyn		W.-M. Lee, et al., "Mutation of Host delta9 Fatty Acid Desaturase Inhibits Brome Mosaic Virus RNA Replication between Template Recognition and RNA Synthesis," J. Virol. 75(5):2097-2106, 2001.	

Examiner Signature		Date Considered	10-2-07
---------------------------	--	------------------------	---------

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

5439706_1.PDF

Please type a plus sign (+) inside this box → ☐

PTO/SB/08B (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number			
		Filing Date	July 14, 2003		
		First Named Inventor	Paul G. Ahlquist		
		Group Art Unit			
		Examiner Name			
Sheet	4	of	5	Attorney Docket Number	960296.00096

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
gu		B.D. Lindenbach, et al., "A Long Distance Interaction in Flock House Virus RNA1 Controls Subgenomic RNA3 Synthesis," Sixth International Symposium on Positive Strand RNA Viruses," P1-129, May 28-June 2, 2001, Institut Pasteur, Paris, France (abstract).	
		B.D. Lindenbach, et al., "Flock House Virus Subgenomic RNA3 Synthesis is Controlled by a Long Distance Base Pairing Interaction in RNA1," American Society for Virology, W3-2, 20th Annual Meeting, University of Wisconsin-Madison, Madison, Wisconsin, July 21-25, 2001 (abstract).	
		A.E. McBride, et al., "Human Protein Sam68 Relocalization and Interaction with Poliovirus RNA Polymerase in Infected Cells," Proc. Natl. Acad. Sci. USA 93:2296-2301, 1996.	
		D.J. Miller, et al., "Flock House Virus RNA Replicates on the Outer Mitochondrial Membrane of Drosophila Cells," American Society for Virology, W41-4, 20th Annual Meeting, University of Wisconsin-Madison, Madison, Wisconsin, July 21-25, 2001 (abstract).	
		E.J. Neer, et al., "The Ancient Regulatory-Protein Family of WD-Repeat Proteins," Nature 371:297-300, 1994.	
		A. Noueiry and P. Ahlquist, "A Mutant Allele of DED1, A Yeast General Translation Initiation Factor, Selectively Inhibits Translation of Bromovirus Polymerase Message," American Society for Virology, 19th Annual Meeting, Colorado State University, Fort Collins, Colorado, p. 88, July 8-12, 2000 (abstract)	
		A. Noueiry, et al., "A Mutant Allele of Essential, General Translation Initiation Factor DED1 Selectively Inhibits Translation of a Viral mRNA," PNAS 97(24):12985-12990, 2000.	
		A. Noueiry, et al., "BMV RNA Translation Requires Host Genes Essential for Deadenylated mRNA Decapping," Sixth International Symposium on Positive Strand RNA Viruses," S3-O6, May 28-June 2, 2001, Institut Pasteur, Paris, France (abstract).	
		A. Noueiry, et al., "BMV RNA Translation Require Host Genes Essential for Deadenylated mRNA Decapping," American Society for Virology, W17-3, 20th Annual Meeting, University of Wisconsin-Madison, Madison, Wisconsin, July 21-25, 2001 (abstract).	
		R.E. O'Neill, et al., "Nuclear Import of Influenza Virus RNA can be Mediated by Viral Nucleoprotein and Transport Factors Required for Protein Import," J. Biol. Chem. 270(39):22701-22704, 1995.	
gu		R.E. O'Neill, et al., "NPI-1, the Human Homolog of SRP-1, Interacts with Influenza Virus Nucleoprotein," Virology 206:116-125, 1995.	

Examiner Signature	<i>sc Chen</i>	Date Considered	10-25-17
--------------------	----------------	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

5439706_1.PDF


Please type a plus sign (+) inside this box → ☐

PTO/SB/08B (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number			
		Filing Date	July 14, 2003		
		First Named Inventor	Paul G. Ahlquist		
		Group Art Unit			
		Examiner Name			
Sheet	5	of	5	Attorney Docket Number	960296.00096

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
cm		B.D. Price, et al., "Induction of RNA Replicons Based on Flock House Virus RNA2 that Express Replication-dependent Selectable Markers in <i>S. cerevisiae</i> ," American Society for Virology, 19th Annual Meeting, Colorado State University, Fort Collins, Colorado, p. 129, July 8-12, 2000	
1		M.A. Restrepo-Hartwig and P. Ahlquist, "Brome Mosaic Virus Helicase- and Polymerase-Like Proteins Colocalize on the Endoplasmic Reticulum at Sites of Viral RNA Synthesis," J. Virol. 70(12):a-j, 1996.	
cm		V.E. Velculescu, et al., "Characterization of the Yeast Transcriptome," Cell 88:243-251, 1997 (front page only).	

Examiner Signature		Date Considered	10-2-07
-----------------------	---	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

5439847_1.PDF